

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) ~~A system comprising:~~
a plurality of electronic devices, each electronic device configured to operate under a different supply voltage;
a single supply source having multiple voltage taps to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level The hearing aid of claim 3, wherein the common substrate is an insulating alumina substrate.
2. (Currently Amended) The ~~system~~ hearing aid of claim [[1]] 1, wherein the single supply source is a battery having multiple voltage taps.
3. (Currently Amended) The ~~system~~ hearing aid of claim 2, wherein the battery includes a common substrate on which a plurality of battery regions are disposed, each battery region providing a supply voltage, the supply voltage of at least one battery region at a rated voltage level different ~~than the other battery regions~~ from another battery region of the plurality of battery regions.
4. (Currently Amended) The ~~system~~ hearing aid of claim 3, wherein the common substrate is a rigid ceramic platform substrate.
5. (Currently Amended) The ~~system~~ hearing aid of claim 3, wherein the common substrate is a flexible platform in a folded configuration.
6. (Currently Amended) The ~~system~~ hearing aid of claim 3, wherein the common substrate is a flexible platform in a rolled configuration.

7. (Currently Amended) The ~~system~~ hearing aid of claim 3, wherein the system is a A hearing aid comprising:

a plurality of electronic devices, each electronic device configured to operate under a different supply voltage;

a single supply source having multiple voltage taps to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level; and

a housing containing the plurality of electronic devices and the single supply source, the housing structured to mount in or about an ear of a person.

8. (Currently Amended) The ~~system~~ hearing aid of claim 7, wherein the hearing aid further includes a battery management unit having circuitry to monitor the voltage level of each battery region.

9. (Currently Amended) The ~~system~~ hearing aid of claim 8, wherein the battery management unit includes circuitry to output an audible notice when the voltage level of a battery region reaches a minimum operational level.

10. (Currently Amended) The ~~system~~ hearing aid of claim 7, wherein the battery includes three battery regions on a common substrate.

11. (Currently Amended) The ~~system~~ hearing aid of claim 7, wherein the battery includes a 1.3V tap, a 2.6V tap, and a 3.8V tap.

12. (Currently Amended) The ~~system~~ hearing aid of claim 7, wherein the hearing aid further includes a battery recharge control.

13. (Currently Amended) The ~~system~~ hearing aid of claim 12, wherein the battery recharge control includes a switching circuit to independently couple a voltage tap to a recharge circuit.

14. (Currently Amended) The ~~system~~ hearing aid of claim 12, wherein the battery recharge

control includes a number of voltage regulators to limit the voltage recharge to a voltage at or below a selected recharge voltage level.

15. (Currently Amended) The ~~system~~ hearing aid of claim 7, wherein the hearing aid includes a switching network to selectively switch an electronic device of the plurality of electronic devices to any voltage tap of the multiple voltage taps.

16. (Currently Amended) The ~~system~~ hearing aid of claim 7, wherein the hearing aid includes:

- a microphone;
- a signal processor; and
- an amplifier, wherein each of the microphone, the signal processor, and the amplifier are powered by a different voltage tap of the battery.

17. (Currently Amended) The ~~system~~ hearing aid of claim 7, wherein the hearing aid further includes one or more regulators, each regulator associated with a different voltage tap of the battery.

18. (Currently Amended) The ~~system~~ hearing aid of claim 7, wherein the hearing aid further includes a wireless link that operates with a supply voltage greater than 1.3V.

19. (Currently Amended) A hearing aid comprising:

- a plurality of electronic devices, each electronic device configured to operate under a different supply voltage;

- a battery to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level; and

- a housing containing the plurality of electronic devices and the single supply source, the housing structured to mount in or about an ear of a person, wherein the battery comprising
includes:

- a substrate;

a plurality of battery regions disposed on the substrate, each battery region to provide a different supply voltage;

a plurality of buffer regions, one or more buffer regions separating each battery region; and

a plurality of voltage taps, wherein each battery region has a voltage tap.

20. (Currently Amended) The ~~battery~~ hearing aid of claim 19, wherein the substrate is a rigid platform.

21. (Currently Amended) The ~~battery~~ hearing aid of claim 19, wherein the substrate is a flexible platform such that the battery has ~~[[in]]~~ a folded configuration.

22. (Currently Amended) The ~~battery~~ hearing aid of claim 19, wherein the substrate is a flexible platform such that the battery has ~~[[in]]~~ a rolled configuration.

23. (Currently Amended) The ~~battery~~ hearing aid of claim 19, wherein the number of battery regions is three.

24. (Currently Amended) The ~~battery~~ hearing aid of claim 19, wherein the battery includes a 1.3V supply voltage, a 2.6V supply voltage, and a 3.8V supply voltage.

25. (Currently Amended) The ~~battery~~ hearing aid of claim 19, further including a reference contact common to each battery region.

26. (Currently Amended) The ~~battery~~ hearing aid of claim 19, further including a number of reference contacts, each reference contact coupled to a different battery region.

27. (Currently Amended) The ~~battery~~ hearing aid of claim 19, wherein one or more of the battery regions are rechargeable.

28. (Currently Amended) A method of manufacturing a hearing aid comprising:
mounting a number of electronic devices into a housing of a hearing aid, the housing structured to mount in or about an ear of a person, each electronic device configured to operate under a different supply voltage; and
providing the hearing aid with a single supply source to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level.
29. (Original) The method of claim 28, wherein providing the hearing aid with a single supply source includes providing the hearing aid with a battery having multiple voltage taps.
30. (Currently Amended) The method of claim 29, wherein providing the hearing aid with a battery having multiple voltage taps includes providing the battery having a common substrate on which a plurality of battery regions are disposed, each battery region providing a supply voltage, the supply voltage of at least one battery region at a rated voltage level different ~~than the other~~ from another battery region of the plurality of battery regions.
31. (Original) The method of claim 30, wherein providing a battery having a common substrate includes providing the battery with the common substrate formed as a rigid platform.
32. (Original) The method of claim 30, wherein providing a battery having a common substrate includes providing the battery with the common substrate formed as a flexible platform in a folded configuration.
33. (Original) The method of claim 30, wherein providing a battery having a common substrate includes providing the battery with the common substrate formed as a flexible platform in a rolled configuration.
34. (Original) The method of claim 29, wherein the method further includes providing a wireless link that operates with a supply voltage greater than 1.3V.